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Model #: RV2012OEM

PowerVerter RV Inverter/Charger - Quiet Mobile Power for RV, Camping & Boating Applications

Highlights

- 12V DC or 120V AC input; 120V AC output (hardwired)
- 2000 watts continuous, 3000 watts OverPower and 4000 watts DoubleBoost inverter output
- 3 stage, 25/100 amp selectable wet/dry cell battery charger
- Built-in Isobar® premium AC surge protection and Auto Transfer Switching option for battery backup / UPS operation
- Tested to power inverter standards UL458 (USA) and CSA (Canada)
- High reliability large-transformer design with protected DC and AC wiring terminals

Description

Tripp Lite's RV2012OEM Inverter/Charger is the quiet alternative to gas generatorswith no fumes, fuel or noise to deal with! It provides equipment with utility- or generator-supplied AC electricity filtered through premium ISOBAR surge protection. This DC-to-AC inverter with automatic line-to-battery transfer and integrated charging system serves as an extended run UPS, a standalone power source or an automotive inverter suitable for rugged RV applications. Supplies up to 2000 watts of continuous 120V AC power from any 12V DC battery or automotive DC source. OverPower TM inverter output feature temporarily provides up to 150% of the continuous output for 1-60 minutes and DoubleBoost TM inverter output feature delivers up to 200% of the continuous output for up to 10 seconds, providing the extra power needed to cold start heavy-duty tools and motorized equipment. When hardwire AC input is energized, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, selectable 25/100 amp charging system. Includes optional dual-circuit hardwire AC input to enable full charger output from circuit 1 with a 120V 20A input and full AC pass-through from circuit 2 with a second 120V 20A input feed. In UPS mode, the APS system responds to blackouts and voltage fluctuations with a near instantaneous automatic transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling - see owner's manual for recommendations). Passes sine wave utility or generator power during battery charging and UPS line power operation, plus efficient PWM sine wave AC output in inverter and UPS backup modes. Reliable large transformer design, with frequency control powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on startup. Optional APSRM4 wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (APSRM4 sold separately). Supports an unlimited amount of runtime with any number of user-supplied batteries connected. Highly adaptable to a variety of applications and site conditions with adjustable charger settings for wet/gel battery types and selectable line to battery power transfer voltages.

Applications

- Versatile inverter/charger system with auto-transfer switching serves as an automotive inverter for RVs, over-the-road trucking, conversion vans and fleet service vehicles; a standalone alternative power source for off-grid, alternative energy or export applications and as an uninterruptible power supply (UPS) for items compatible with a 16.6 millisecond transfer time.

Package Includes

- RV2012OEM Inverter/Charger
- Instruction manual with warranty information

Features

- RV2012OEM serves as an automotive or stationary DC-to-AC inverter with automatic line-to-battery transfer and integrated battery charger
- Supports 120V AC output from a 120V AC line power source or 12V DC battery source
- 16.6 millisecond automatic transfer between line and battery power supports UPS protection during blackouts and voltage fluctuations for equipment compatible with a one cycle transfer time
- 2000 watts continuous AC output in inverter mode, 2400 watts continuous AC output in AC mode
- Double Boost inverter output supports momentary startup loads up to 200% of the continuous rating for up to 10 seconds
- OverPower inverter output supports longer duration overloads to 150% for 1-60 minutes under ideal battery and temperature conditions. (For best results, utilize OverPower usage for as short of a duration as possible, ensure battery bank and cabling is able to provide full nominal DC voltage under load and allow inverter/charger to fully cool before and after OverPower usage.)
- 3 stage, selectable 25/100 amp battery charger with adjustable settings for wet/gel battery types offers fast, reliable battery recharging
- Protected hardwire bolt-down input lugs safely accept heavy gauge input wiring from attached battery bank
- Protected hardwire output passes 120V line power or inverter output through to connected equipment. Includes optional dual-circuit hardwire AC input to enable full charger output from the first 120V 20A circuit and full AC pass-through from the second 120V 20A input feed
- Reliability enhanced large-transformer design tested to UL (USA) and CSA (Canada) standards
- Moisture-resistant construction enables vehicular or marine operation in high humidity environments
- 3 position operating mode switch supports "AUTO" mode to enable automatic transfer between DC and AC modes, CHARGE-ONLY to maintain a full battery charge when AC is present without auto transfer and SYSTEM OFF settings
- Set of six front panel LEDs display AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status
- Set of 4 configuration dipswitches support wet/gel battery charging profiles, adjustable 135/145V high voltage auto transfer during overvoltages and selectable 75/85/95/105V AC low voltage auto transfer during brownouts
- Set of 4 additional configuration dipswitches support 4 levels of charger limiting relative to output load size, a battery equalization program and battery charger low/high settings
- Resettable 25A charger AC input breaker and resettable dual 20A branch-rated AC output breakers and automatic 2 speed cooling fan protect the inverter from load and temperature related failures
- Grounding lug properly connects the inverter/charger system to earth ground or vehicle grounding system
- Automatic overload and thermal shutoff safely turns off inverter as excessive loads or overheating conditions develop
- Front panel remote control connector enables remote off/on switching (requires APSRM4 switch accessory). Optional APSRM4 accessory also includes user configurable jacks to support inverter shutoff or startup as a vehicle ignition is engaged
- Load sensing control dial enables adjustable load threshold required to automatically turn the inverter on and off in DC mode as load conditions change
- Includes battery temperature sensor with 20 foot cable to prolong battery life by adjusting the charge level based on battery temperature
- Automatic Generator Starter jack enables user configuration of automatic generator startup as inverter batteries drop to 11.5VDC and generator shutoff as inverter batteries are recharged to 14.1VDC

Specifications

OVERVIEW	
Intended Application	RV/Marine
SYSTEM OVERVIEW	
Voltage compatibility	12VDC / 120VAC
Frequency compatibility	60 Hz
OUTPUT	
Output watts	2000W (continuous) / 4000W (peak)
Output nominal voltage	120V
Output voltage regulation	LINE POWER (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 VAC (+/-5%).
Output frequency regulation	60 Hz (+/- 0.3 Hz)
Outlet quantity / type	Hardwire
Overload protection	Includes 25A input breaker dedicated to the charging system and 2 branch rated 20A output load breakers

Continuous output capacity (watts)	2000
Peak output capacity (watts)	4000
INPUT	
Input connection type	DC INPUT: Set of 4 DC bolt-down terminals (2 red / 2 black). AC INPUT: hardwire (2 input circuits - see manual)
Input cord length	DC INPUT: User supplies cabling. 0 gauge or larger (see manual). AC INPUT: hardwire
Recommended Electrical Service	DC INPUT: Requires 12VDC input source capable of delivering 185A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation). For automotive applications, professional hardwire
Maximum input amps / watts	DC INPUT: Full continuous load - 190A at 12VDC. AC INPUT: 60 amps total (40A line 1 / 20A line 2) at 120VAC with full inverter and charger load (25A max charger-only from line 1 / combined input load to support charger and AC output is automatically controlled
BATTERY	
Expandable battery runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC system voltage	12V
Battery recharge rate	25A /100A (selectable)
LEDS ALARMS & SWITCHES	
Front panel LEDs	Set of 6 LEDs offer continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	3-position on/off/remote switch enables simple on/off power control plus auto/remote setting that enables distant on/off control of the inverter system when used in conjunction with APSRM4 accessory (sold separately) in inverter mode. In AC uninterruptible power mode, auto/remote setting enables automatic transfer from line power to battery power, maintaining continuous AC power to connected loads.
SURGE / NOISE SUPPRESSION	
AC surge suppression	450 joules AC surge suppression included
PHYSICAL	
Shipping weight (lbs)	58.8
Shipping weight (kg)	26.7
Shipping Dimensions (HWD/in)	15.25 x 16 x 24
Shipping Dimensions (HWD/cm)	38.7 x 40.6 x 60.9
Unit weight (lbs)	53
Unit weight (kg)	24.1
Unit Dimensions (HWD/in)	9.75 x 11.25 x 16.5
Unit Dimensions (HWD/cm)	24.8 x 28.6 x 41.9
Material of construction	Steel
Form factors supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Cooling method	Multi-speed fan
Style	Heavy-duty with built-in battery charger
ENVIRONMENTAL	

Relative Humidity	0-95% non-condensing
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	16.6 milliseconds (typical - compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications)
Low voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 75V (user adjustable to 85, 95, 105V - see manual)
High voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 135V (user adjustable to 145 - see manual)
SPECIAL FEATURES	
Appearance	Attractive gray color scheme
Load Sensing	Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off and on. Front panel load sense potentiometer can be set to shutoff or turn on inverter power in response to loads of any level, up to 150 watts.
Remote control capability	Yes
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	98-121 sealed lead acid battery (optional)
CERTIFICATIONS	
Certifications	Tested to UL458 (USA) and CSA (Canada)
WARRANTY	
Product Warranty Period	30 months (Outside the U.S. and Canada, call for warranty information)

Related Items

Audio Cables		
BP-260	Ideal battery housing for use with Tripp Lite PowerVerter APS inverter/charger systems with a 12 or 24V DC system voltage.	Qty: [optional]
98-121	12V DC Sealed, Maintenance-Free Battery - For all PowerVerter models which accept 12V DC input	Qty: [optional]

Inverter Accessories		
APSRM4	Remote Control Module - for Tripp Lite Inverters and Inverter/Chargers	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=2569.

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